

PASS 3

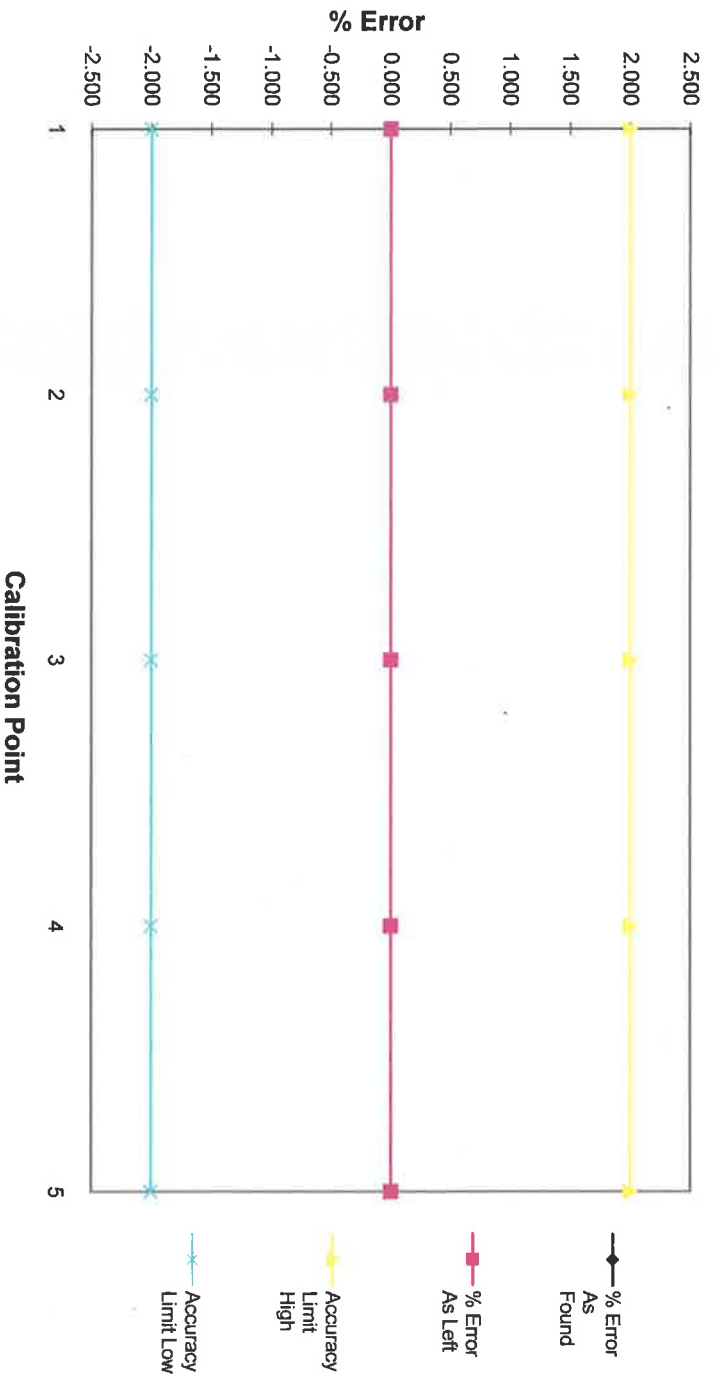
Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.			
Application/Service Tar Tank Control Box			Tag No. TTCB-CV			
Manufacturer Fisher		Model No. n/a		Serial No. n/a		
Instrument			X			
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special Control Valve	
Output Signal Range and Units						
Lo Range Value 0	Hi Range Value 100	Units Percent		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	0	0	0.000	0	0.000
25%	8	25	25	0.000	25	0.000
50%	12	50	50	0.000	50	0.000
75%	16	75	75	0.000	75	0.000
100%	20	100	100	0.000	100	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		On File	On File	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name ABC Coke Plant		Customer No.	Contract/P.O. No.
Application/Service Tar Tank Control Box		Tag No.	TTCB-CV
Manufacturer Fisher	Model No. n/a	Serial No. n/a	



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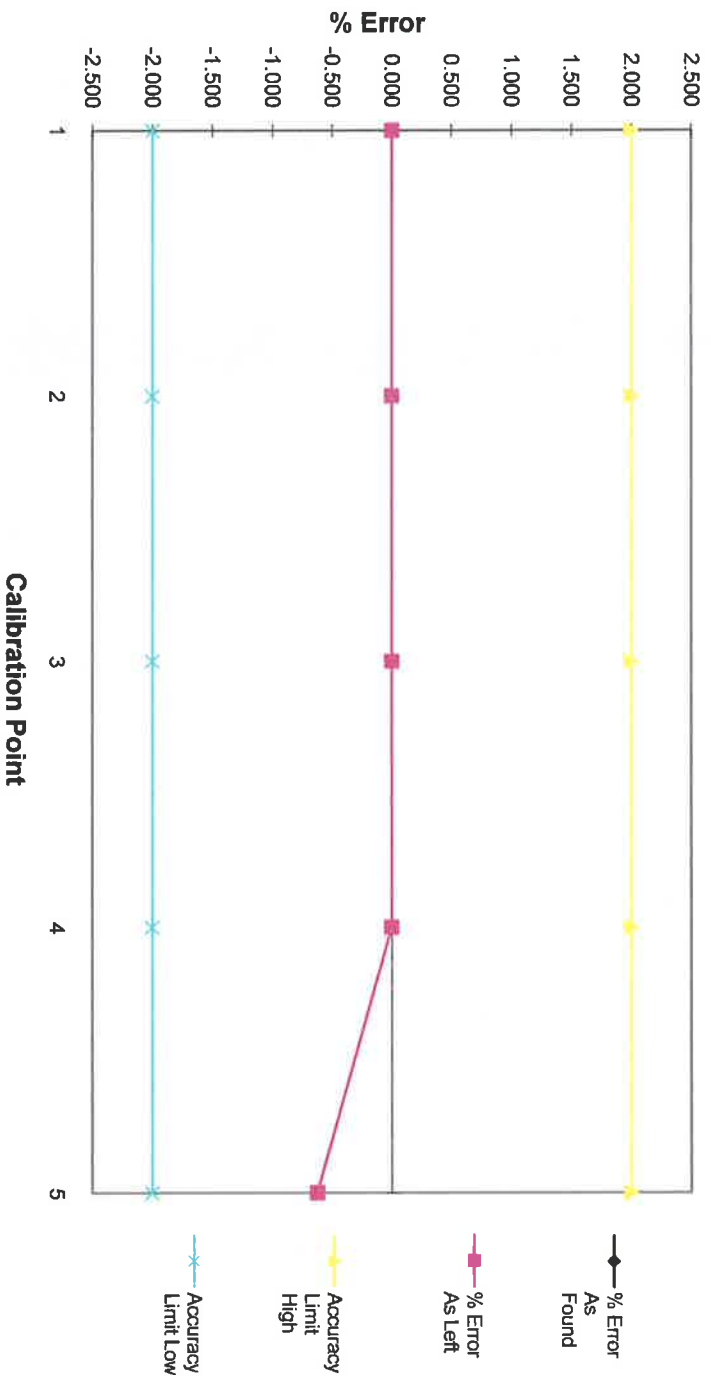
Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.			
Application/Service Process Water Decanter			Tag No. PWD-YC			
Manufacturer Yokogawa		Model No. UT-550		Serial No. T 5007RH188-738		
Instrument			X			
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value -2	Hi Range Value 14	Units INH2O		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	-2	-2.0	0.000	-2.0	0.000
25%	8	2	2.0	0.000	2.0	0.000
50%	12	6	6.0	0.000	6.0	0.000
75%	16	10	10.0	0.000	10.0	0.000
100%	20	14	13.9	-0.625	13.9	-0.625
Comments						
CONTROLLER WILL NOT CONTROLL VALVE.						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.	Contract/P.O. No.
ABC Coke Plant			
Application/Service		Tag No.	
Process Water Decante		PWD-YC	
Manufacturer	Model No.	Serial No.	
Yokogawa	UT-550	T 5007RH188-738	



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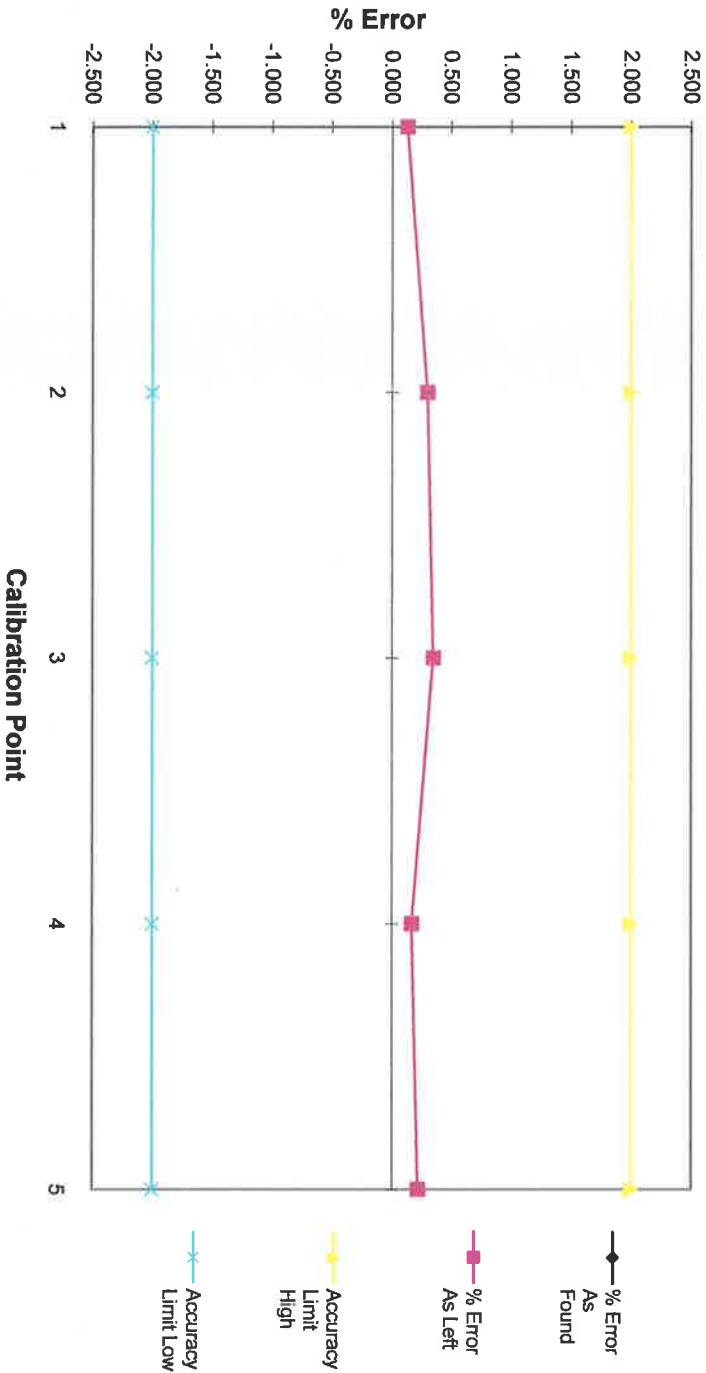
Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.			
Application/Service Process Water Decanter			Tag No. PWD-PT			
Manufacturer Rosemount		Model No. 3051 CD1A22A1AB4K5		Serial No. 703218		
Instrument			X			
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value -2	Hi Range Value 14	Units INH2O		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	-2	4	4.021	0.131	4.021	0.131
25%	2	8	8.048	0.300	8.048	0.300
50%	6	12	12.056	0.350	12.056	0.350
75%	10	16	16.027	0.169	16.027	0.169
100%	14	20	20.035	0.219	20.035	0.219
Comments						
TRANSMITTER NEEDS TO BE RE-LOCATED ABOVE TAP.						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	HAND PUMP	DWYER				
Output Device	FLUKE METER	725		on file	on file	
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Process Water Decante				PWD-PT	
Manufacturer		Model No.		Serial No.	
Rosemount		3051 CD1A22A1AB4K5		703218	



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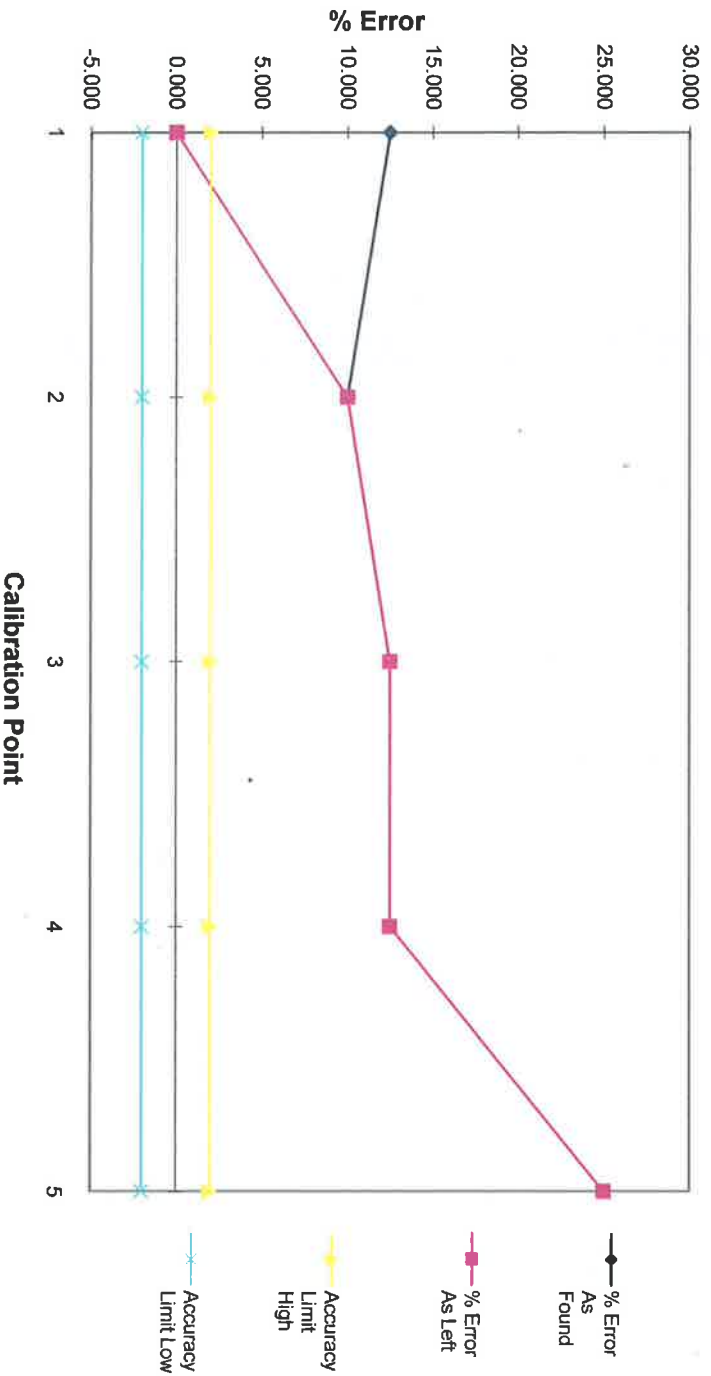
Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.			
Application/Service Process Water Decanter			Tag No. PWD-MAG			
Manufacturer Magnehelic		Model No. n/a		Serial No. n/a		
Instrument		X				
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 10	Hi Range Value 50	Units INH2O		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value 10	Hi Range Value 50	Units INH2O		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	10	10	15	12.500	10	0.000
25%	20	20	24	10.000	24	10.000
50%	30	30	35	12.500	35	12.500
75%	40	40	45	12.500	45	12.500
100%	50	50	60	25.000	60	25.000
Comments						
MAGNEHELIC NEEDS TO BE REPLACED.						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name ABC Coke Plant		Customer No.	Contract/P.O. No.
Application/Service Process Water Decante		Tag No.	PWD-MAG
Manufacturer Magnehelic	Model No. n/a	Serial No. n/a	



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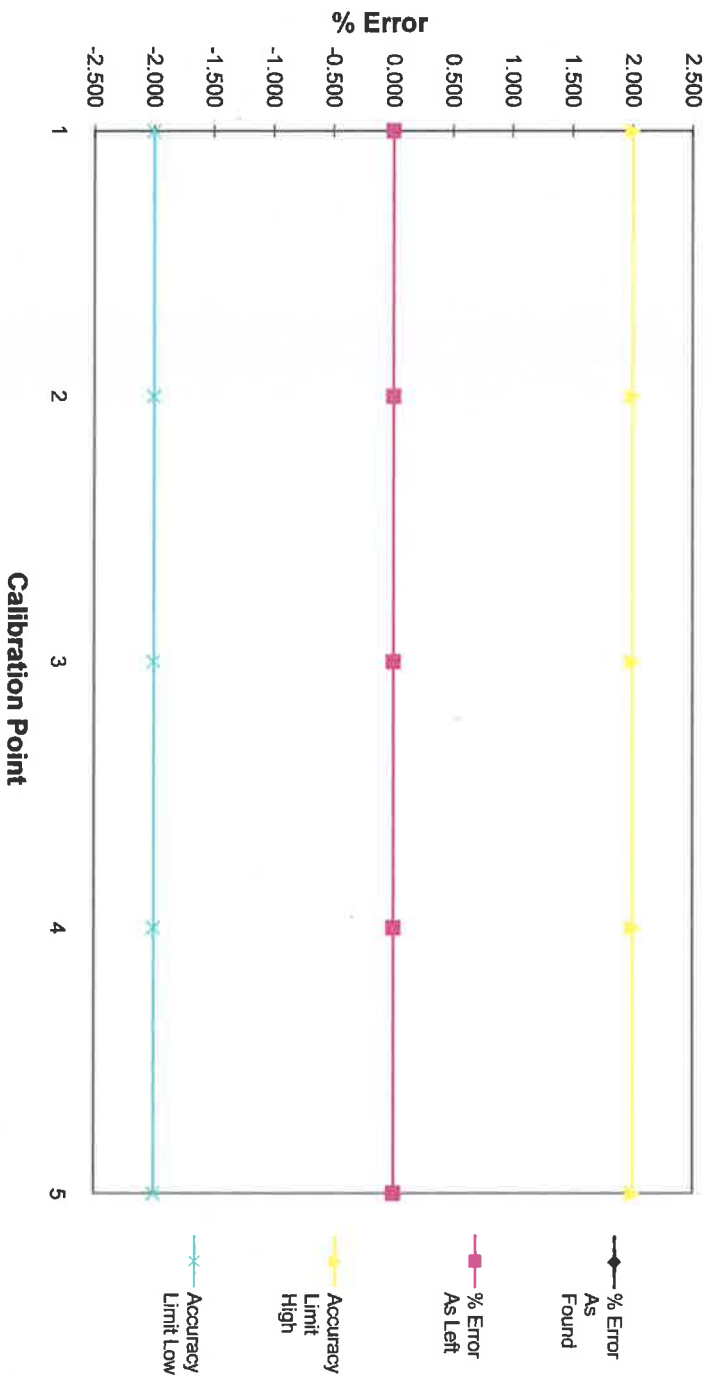
Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.			
Application/Service Process Water Decanter			Tag No. PWD-CV			
Manufacturer Fisher		Model No. 1052		Serial No. 15363423		
Instrument			X			
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value 0	Hi Range Value 100	Units Percent		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	0.00	0	0.000	0	0.000
25%	8.00	25.00	25	0.000	25	0.000
50%	12.00	50.00	50	0.000	50	0.000
75%	16.00	75.00	75	0.000	75	0.000
100%	20.00	100.00	100	0.000	100	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Process Water Decante				PWD-CV	
Manufacturer		Model No.		Serial No.	
Fisher		1052		15363423	



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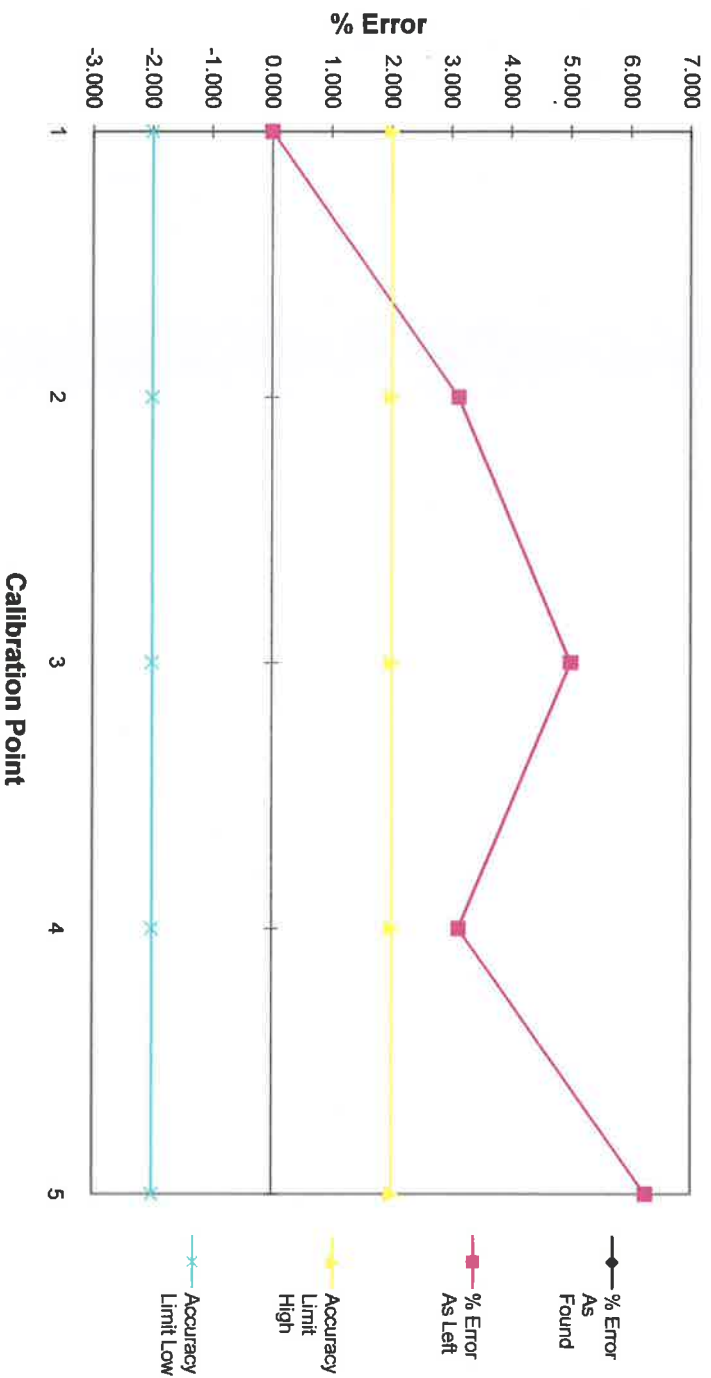
Calibration Certification

Customer Name ABC Coke Plant					Contract/P.O. No.	
Application/Service Platform Control Box					Tag No. PCB-YC2	
Manufacturer Yokogawa		Model No. UT-550			Serial No. N/A	
Instrument		X				
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 1	Hi Range Value 5	Units VDC		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value -2	Hi Range Value 14	Units INH2O		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	1.00	-2.00	-2.000	0.000	-2.000	0.000
25%	2.00	2.00	2.500	3.125	2.500	3.125
50%	3.00	6.00	6.800	5.000	6.800	5.000
75%	4.00	10.00	10.500	3.125	10.500	3.125
100%	5.00	14.00	15.000	6.250	15.000	6.250
Comments						
CONTROLLER WILL NT TRACK INPUT.						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		ON FILE	ON FILE	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Platform Control Box				PCB-YC2	
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		N/A	



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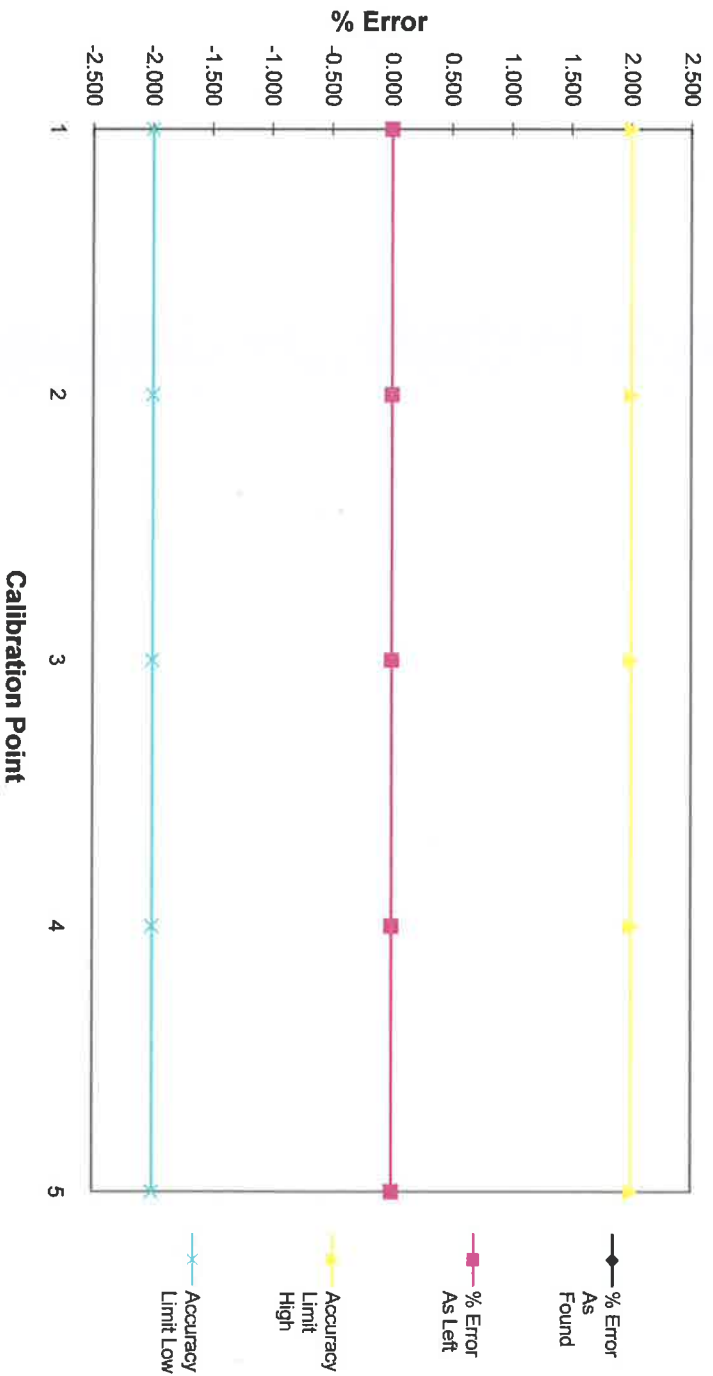
Calibration Certification

Customer Name ABC Coke Plant					Contract/P.O. No.	
Application/Service Platform Control Box					Tag No. PCB-YC1	
Manufacturer Yokogawa		Model No. UT-550			Serial No. T50075U314-830	
Instrument		X				
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value -2	Hi Range Value 14	Units INH2O		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	-2.00	-2.000	0.000	-2.000	0.000
25%	8.00	2.00	2.000	0.000	2.000	0.000
50%	12.00	6.00	6.000	0.000	6.000	0.000
75%	16.00	10.00	10.000	0.000	10.000	0.000
100%	20.00	14.00	14.000	0.000	14.000	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 11/24/2008	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Platform Control Box				PCB-YC1	
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		T50075U314-830	



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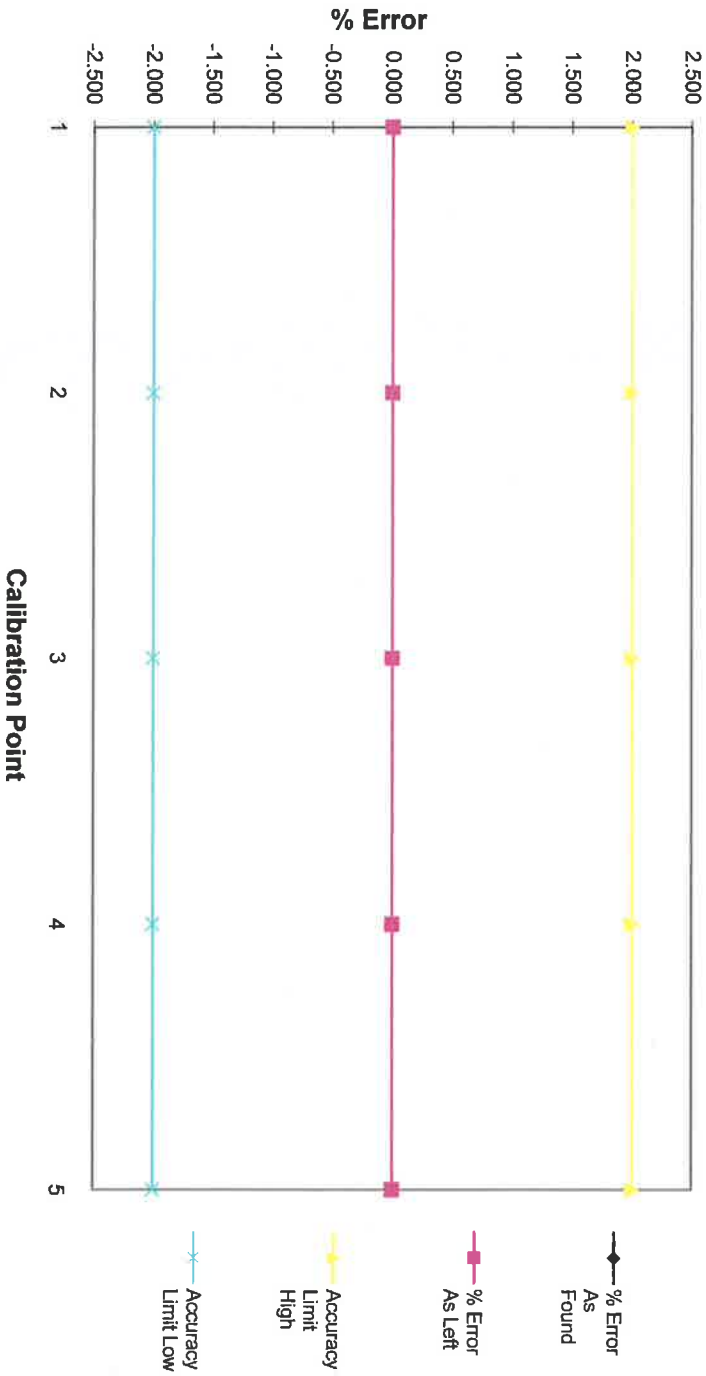
Calibration Certification

Customer Name ABC Coke Plant					Contract/P.O. No.	
Application/Service Tar Tank Control Box					Tag No. TTCB-YC	
Manufacturer Yokogawa		Model No. UT-550			Serial No. T5007SU155	
Instrument	X					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value -2	Hi Range Value 14	Units INH2O		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	-2	-2.0	0.000	-2.0	0.000
25%	8	2	2.0	0.000	2.0	0.000
50%	12	6	6.0	0.000	6.0	0.000
75%	16	10	10.0	0.000	10.0	0.000
100%	20	14	14.0	0.000	14.0	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		On File	On File	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Tar Tank Control Box				TTCB-YC	
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		T5007SU155	



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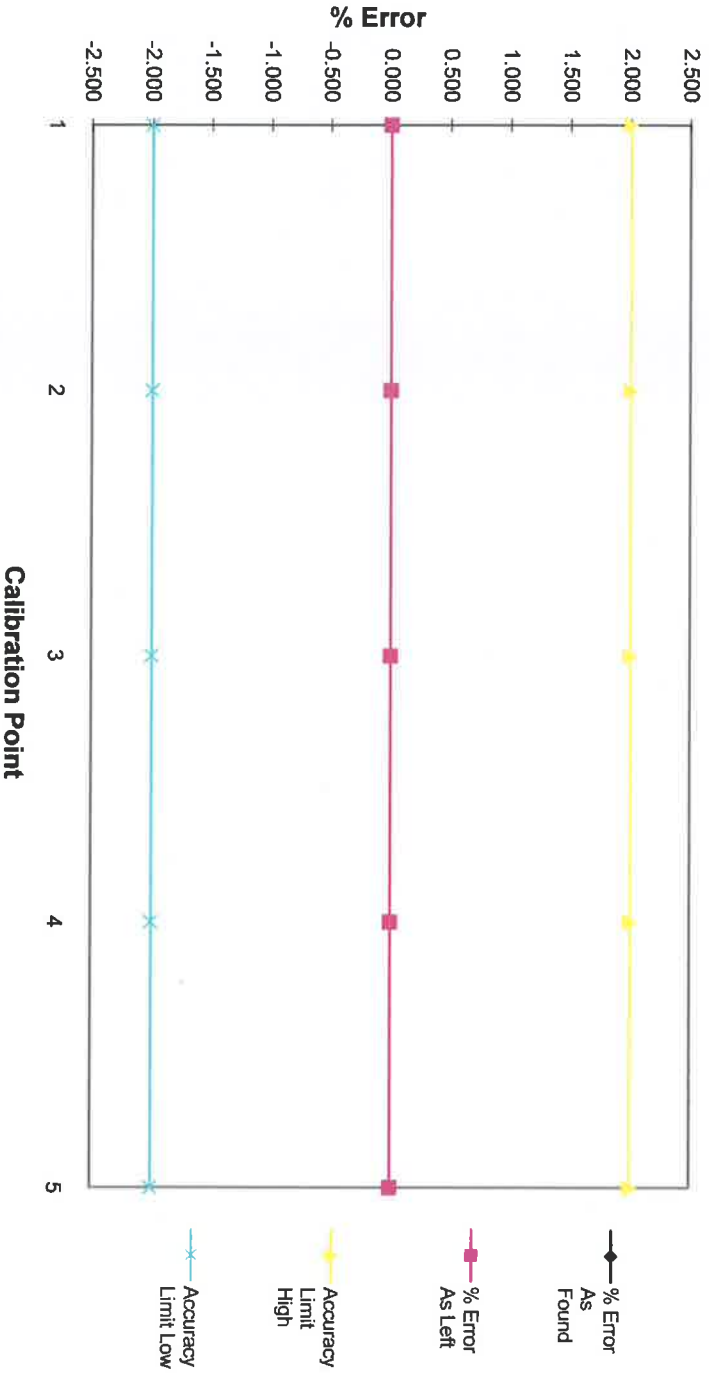
Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.		
Application/Service Wash Oil Control Box			Tag No. WOCB-CV		
Manufacturer Fisher		Model No. 1052		Serial No. 15363423	
Instrument			X		
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading	
Input Signal Range and Units					
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special
Output Signal Range and Units					
Lo Range Value 0	Hi Range Value 100	Units Percent		Characteristic Linear	Special
Instrument Condition as Found					
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left % Error As Left
0%	4.00	0.00	0	0.000	0 0.000
25%	8.00	25.00	25	0.000	25 0.000
50%	12.00	50.00	50	0.000	50 0.000
75%	16.00	75.00	75	0.000	75 0.000
100%	20.00	100.00	100	0.000	100 0.000
Comments					
Calibration Equipment Used					
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.
Input Device	Fluke Calibrator	725		8218055	1000195484
Output Device	Local Display				
Approvals					
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed	
PASS 3 Signature JOHN HORTON		Customer Signature			



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Wash Oil Control Box				WOCB-CV	
Manufacturer		Model No.		Serial No.	
Fisher		1052		15363423	



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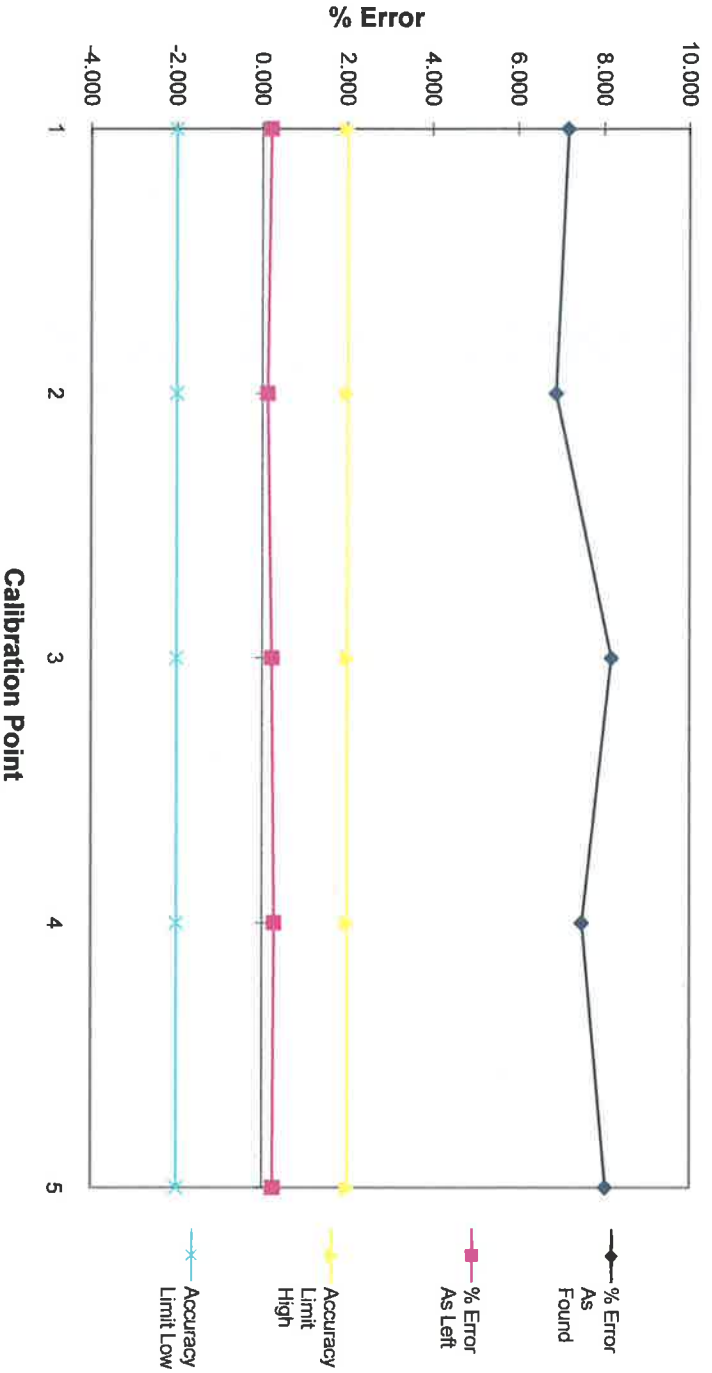
Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.			
Application/Service Wash Oil Control Box			Tag No. WOCB-IP			
Manufacturer Dwyer		Model No. 2343		Serial No. 3403		
Instrument			X			
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value 3	Hi Range Value 15	Units PSIG		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	3.00	3.860	7.167	3.025	0.208
25%	8.00	6.00	6.826	6.883	6.015	0.125
50%	12.00	9.00	9.981	8.175	9.027	0.225
75%	16.00	12.00	12.898	7.483	12.034	0.283
100%	20.00	15.00	15.964	8.033	15.030	0.250
Comments						
BAD NEEDS TO BE REPLACED						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		On File	On File	
Output Device	Fluke Calibrator	725		On File	On File	
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Wash Oil Control Box				WOCB-IP	
Manufacturer		Model No.		Serial No.	
Dwyer		2343		3403	



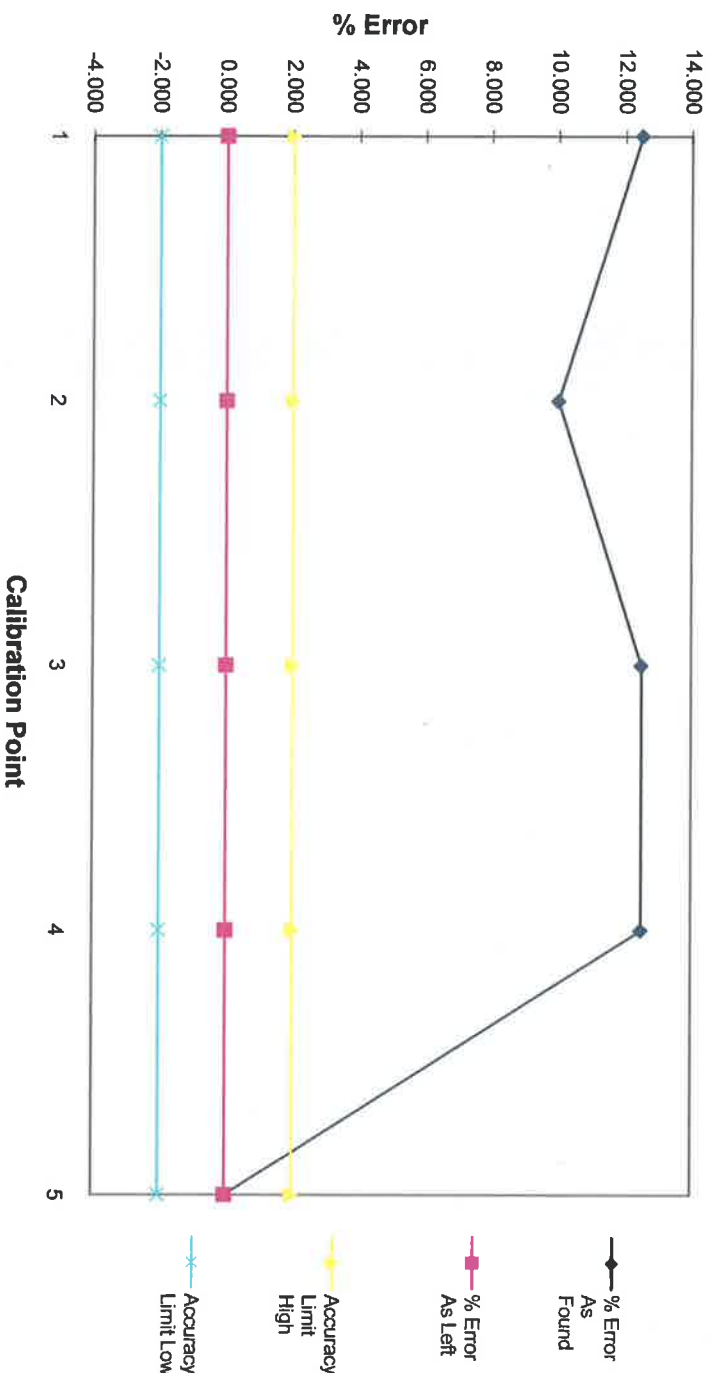
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Calibration Certification

Customer Name ABC Coke Plant					Contract/P.O. No.	
Application/Service Wash Oil Control Box					Tag No. WOCB-MAG	
Manufacturer Magnehelic		Model No. n/a			Serial No. n/a	
Instrument			X			
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value 10	Hi Range Value 50	Units INH2O		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value 10	Hi Range Value 50	Units INH2O		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	10	10	15	12.500	10	0.000
25%	20	20	24	10.000	20	0.000
50%	30	30	35	12.500	30	0.000
75%	40	40	45	12.500	40	0.000
100%	50	50	50	0.000	50	0.000
Comments						
BAD NEEDS TO REPLACE						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				

Calibration Results Chart

Customer Name ABC Coke Plant		Customer No.	Contract/P.O. No.
Application/Service Wash Oil Control Box		Tag No.	WOCB-MAG
Manufacturer Magnehelic	Model No. n/a	Serial No. n/a	



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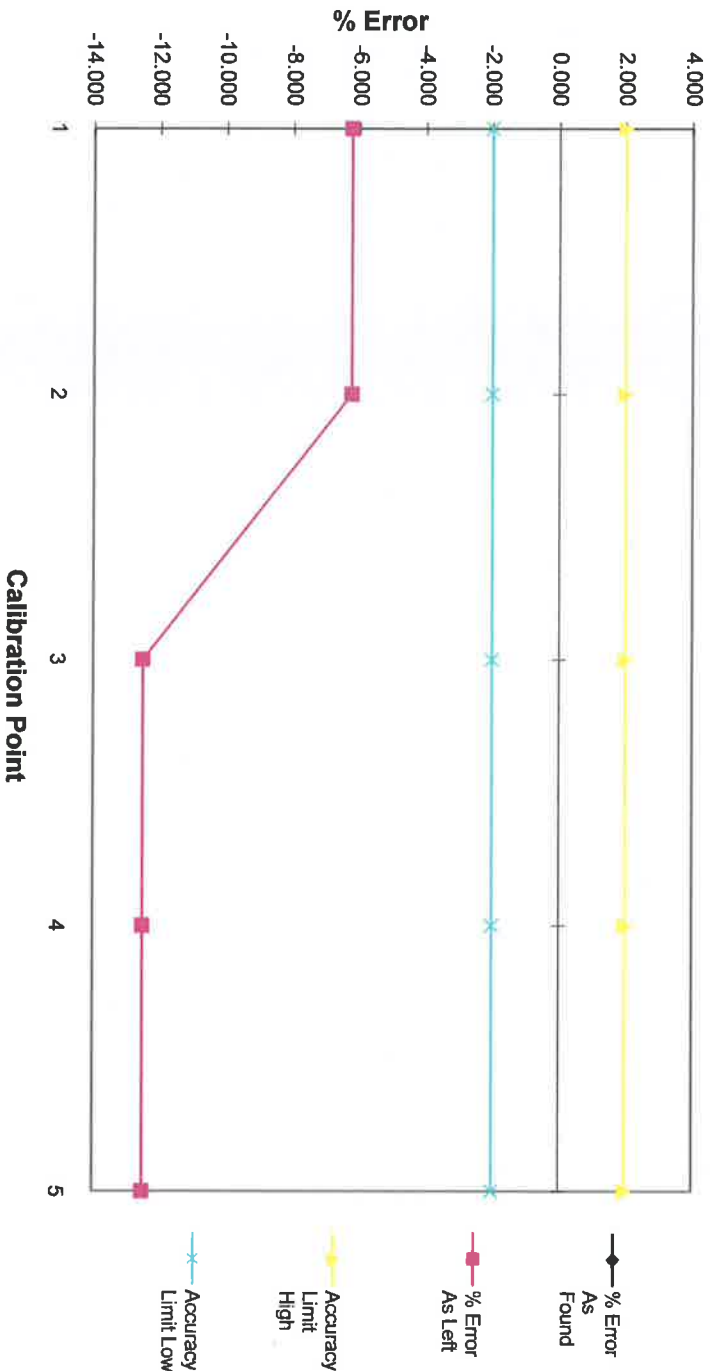
Calibration Certification

Customer Name ABC Coke Plant					Contract/P.O. No.	
Application/Service Wash Oil Control Box					Tag No. WOCB-PT	
Manufacturer Rosemount		Model No. 3051CD1A22A1AB4K5			Serial No. 1318288	
Instrument	X					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value -2	Hi Range Value 14	Units INH2O		Characteristic Linear	Special	
Output Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC		Characteristic Linear	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	-2	4.0	3.000	-6.250	3.000	-6.250
25%	2	8.0	7.000	-6.250	7.000	-6.250
50%	6	12.0	10.000	-12.500	10.000	-12.500
75%	10	16.0	14.000	-12.500	14.000	-12.500
100%	14	20.0	18.000	-12.500	18.000	-12.500
Comments						
BAD NEEDS TO REPLACE						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	HAND PUMP	DWYER				
Output Device	Fluke Calibrator	725		ON FILE	ON FILE	
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By		Date Signed		
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Wash Oil Control Box				WOCB-PT	
Manufacturer		Model No.		Serial No.	
Rosemount		3051CD1A22A1AB4K5		1318288	



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Calibration Certification

Customer Name ABC Coke Plant			Contract/P.O. No.			
Application/Service Wash Oil Control Box			Tag No. WOCB-YC			
Manufacturer Yokogawa		Model No. UT-550		Serial No. T1C811572-334		
Instrument			X			
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy	Plus 2.0	Minus 2.0	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading			
Input Signal Range and Units						
Lo Range Value 4	Hi Range Value 20	Units MADC	Characteristic Linear	Special		
Output Signal Range and Units						
Lo Range Value -2	Hi Range Value 14	Units INH2O	Characteristic Linear	Special		
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	-2.0	-2.0	0.000	-2.0	0.000
25%	8	2.0	1.0	-6.250	1.5	-3.125
50%	12	6.0	5.0	-6.250	5.2	-5.000
75%	16	10.0	9.0	-6.250	9.4	-3.750
100%	20	14.0	13.0	-6.250	13.5	-3.125
Comments						
WILL NOT CONTROLL.						
Calibration Equipment Used						
Calibrator	Description	Model No.	Instrument ID	NIST Cert. No.		
Input Device	Fluke Calibrator	725	8218055	1000195484		
Output Device	Local Display					
Approvals						
Hours 1.0	Date Work Performed 10/12/2009	Accepted By	Date Signed			
PASS 3 Signature JOHN HORTON		Customer Signature				



Calibration Results Chart

Customer Name ABC Coke Plant		Customer No.	Contract/P. O. No.
Application/Service Wash Oil Control Box		Tag No.	WOCB-YC
Manufacturer Yokogawa	Model No. UT-550	Serial No. T1C811572-334	

